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Nov 30, 1999

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DOCUMENT-IDENTIFIER: US 5995980 A

TITLE: System and method for database update replication

DATE-ISSUED: November 30, 1999

## INVENTOR-INFORMATION:

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FIELD-OF-SEARCH: 707/201, 707/203, 707/10

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4631673</u>	December 1986	Haas et al.	707/100
<u>4714992</u>	December 1987	Gladney et al.	707/206
<u>4714995</u>	December 1987	Materna et al.	707/201
<u>4809170</u>	February 1989	Leblang et al.	395/703
<u>5357629</u>	October 1994	Dinnis et al.	707/203
<u>5600832</u>	February 1997	Eisenberg et al.	707/203
<u>5649195</u>	July 1997	Scott et al.	707/201
<u>5737601</u>	April 1998	Jain et al.	707/201
<u>5819251</u>	October 1998	Kremer et al.	707/1

ART-UNIT: 271

PRIMARY-EXAMINER: Amsbury; Wayne

ATTY-AGENT-FIRM: Fulbright &amp; Jaworski, L.L.P. Denko; J. Scott

## ABSTRACT:

The present invention provides a new, high-performance system and method for updating databases or other data compilations with changes entered in a source database or data compilation. Updates are preprocessed to reduce system update demands while increasing

The flexibility for remote processing sites. Data update records are captured or  
 selected and extracted into one or more channel or other criterion-specific batches.  
 Transaction boundaries within a batch are collapsed, and the records coalesced into a  
 package comprising a sequence of updates that reflect the cumulated impact of the  
 selected records. In a preferred embodiment, the batched records are sorted by  
 selected sort key entries and the package is converted to the physical format of  
 selective targets. The created update package is, therefore, organized and physically  
 formatted in correspondence with the target database. The update package is then  
 directly applied to the target database without resort to the traditional front door  
 processing through the local database manager. The processing typically required in  
 database update replication is, thereby, avoided and the update process significantly  
 streamlined. The update packages may be moved to targets by a variety of methods. The  
 packages can be conveyed across network or Internet connections or between disconnected  
 computers. The packages may be stored in computer readable media such as disks or CD  
 ROMs, for example, from which the packages may be accessed by target systems. The  
 update packages may also be made available through modems to field users or clients to  
 allow flexible update scheduling. The invention results in a high performance, database  
 update system and method that significantly reduces system update burdens while  
 increasing update flexibility and minimizing impacts from failures during updating.  
 Updates are performed in significantly less time with a system and method that requires  
 little administrative oversight and minimal personnel training.

32 Claims, 7 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords
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